



SEQUENCE LISTING

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TECH CENTER 1600/2900

<110> Contreras, Roland
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Luyten, Walter
Viaene, Jasmine
Logghe, Marc

<120> Drug Targets in Candida Albicans

<130> 53731/000

<140> US//09/857,372A

<141> 2001-09-24

<150> 982204122.0

<151> 1998-12-04

<160> 22

<170> PatentIn Ver. 2.0

<210> 1

<211> 438

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<213> Candida albicans

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 atgtaatgac tatttaatat ctgtttaaat aagaggttta gtctttattt ttttacgtat 780
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 <211> 978
 <212> DNA
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 <212> DNA
 <213> *Candida albicans*

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<220>
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<222> (613)

<223> n = any nucleotide

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<210> 7

<211> 2319

<212> DNA

<213> *Candida albicans*

<400> 7

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cgacatattg aaattaaaca tcgattacaa gttacattta ggatttctaa accggatctg 2220
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<210> 8

<211> 255

<212> DNA

<213> Candida albicans

<400> 8

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ccatagttca gaaaataaaa ttgaaaaatt taaaaaaaaa cgcaatatca ttcatttttt 180
ttgttttttt gacaataata ttaatatgta gttaccaatg tttttagatt ttatatgttt 240
tgaaaaaata gtttg 255

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<210> 9

<211> 119

<212> DNA

<213> Candida albicans

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<223> n = any nucleotide

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<212> PRT

<213> Candida albicans

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His Lys Leu Glu Asp Glu Thr Pro Ser Ser Ser Phe Thr Arg Thr Asn
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<210> 11

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<212> PRT

<213> Candida albicans

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 35 40 45
 Lys Thr Thr Leu Thr Ala Ala Ile Thr Lys Val Leu Ala Glu Gln Gly
 50 55 60
 Gly Ala Asn Phe Leu Asp Tyr Gly Ser Ile Asp Arg Ala Pro Glu Glu
 65 70 75 80
 Arg Ala Arg Gly Ile Thr Ile Ser Thr Ala His Val Glu Tyr Glu Thr
 85 90 95
 Lys Asn Arg His Tyr Ala His Val Asp Cys Pro Gly His Ala Asp Tyr
 100 105 110
 Ile Lys Asn Met Ile Thr Gly Ala Ala Gln Met Asp Gly Ala Ile Ile
 115 120 125
 Val Val Ala Ala Thr Asp Gly Gln Met Pro Gln Thr Arg Glu His Leu
 130 135 140
 Leu Leu Ala Arg Gln Val Gly Val Gln Asp Leu Val Val Phe Val Asn
 145 150 155 160
 Lys Val Asp Thr Ile Asp Asp Pro Glu Met Leu Glu Leu Val Glu Met
 165 170 175
 Glu Met Arg Glu Leu Leu Ser Thr Tyr Gly Phe Asp Gly Asp Asn Thr
 180 185 190
 Pro Val Ile Met Gly Ser Ala Leu Met Ala Leu Glu Asp Lys Lys Pro
 195 200 205
 Glu Ile Gly Lys Glu Ala Ile Leu Lys Leu Leu Asp Ala Val Asp Glu
 210 215 220
 His Ile Pro Thr Pro Ser Arg Asp Leu Glu Gln Pro Phe Leu Leu Pro
 225 230 235 240
 Val Glu Asp Val Phe Ser Ile Ser Gly Arg Gly Thr Val Val Thr Gly
 245 250 255
 Arg Val Glu Arg Gly Val Leu Lys Lys Gly Glu Glu Ile Glu Ile Val
 260 265 270
 Gly Gly Phe Asp Lys Pro Tyr Lys Thr Thr Val Thr Gly Ile Glu Met
 275 280 285
 Phe Lys Lys Glu Leu Asp Ser Ala Met Ala Gly Asp Asn Cys Gly Val
 290 295 300

Leu Leu Arg Gly Val Lys Arg Asp Glu Ile Lys Arg Gly Met Val Leu
 305 310 315 320
 Ala Lys Pro Gly Thr Ala Thr Ser His Lys Lys Phe Leu Ala Ser Leu
 325 330 335
 Tyr Ile Leu Thr Ser Glu Glu Gly Gly Arg Ser Thr Pro Phe Gly Glu
 340 345 350
 Gly Tyr Lys Pro Gln Cys Phe Phe Arg Thr Asn Asp Val Thr Thr Thr
 355 360 365
 Phe Ser Phe Pro Glu Gly Glu Gly Val Asp His Ser Gln Met Ile Met
 370 375 380
 Pro Gly Asp Asn Ile Glu Met Val Gly Glu Leu Ile Lys Ser Cys Pro
 385 390 395 400
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 Gly Thr Gly Leu Ile Thr Arg Ile Ile Glu
 420 425

<210> 12
 <211> 699
 <212> PRT
 <213> Candida albicans

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 35 40 45
 Asn Ile Asn Asp Lys Thr Ile Val Gln Gly Lys Met Thr Trp Tyr Phe
 50 55 60
 Gly Arg Asp Pro Asn Ser Asp Leu Gln Val Ala Ser Ser Ser Arg Ile
 65 70 75 80
 Ser Asn Lys His Phe Gln Ile Trp Leu Asn Phe Asn Asp Lys Ser Leu
 85 90 95
 Trp Ile Lys Asp Thr Ser Thr Asn Gly Thr His Leu Asn Asn Ser Arg
 100 105 110
 Leu Val Lys Gly Ser Asn Tyr Leu Leu Asn Gln Gly Asp Glu Ile Ala
 115 120 125
 Val Gly Val Gly Arg Asp Glu Asp Val Val Arg Phe Val Val Val Phe
 130 135 140

Gly Asp Lys Tyr Asn Pro Ala Lys Leu Pro Asp Ser Thr Asn Thr Ile
 145 150 155 160
 Lys Asp Glu Gly Ile Tyr Lys Asp Phe Ile Val Lys Asn Glu Thr Ile
 165 170 175
 Gly Gln Gly Ala Phe Ala Thr Val Lys Lys Ala Ile Glu Arg Ser Thr
 180 185 190
 Gly Glu Ser Tyr Ala Val Lys Ile Ile Asn Arg Arg Lys Ala Leu Asn
 195 200 205
 Thr Gly Gly Gly Ser Ala Met Ala Gly Val Asp Arg Glu Leu Ser Ile
 210 215 220
 Leu Glu Arg Leu Asn His Pro Asn Ile Val Ala Leu Lys Ala Phe Tyr
 225 230 235 240
 Glu Asp Met Asp Asn Tyr Tyr Ile Val Met Glu Leu Val Pro Gly Gly
 245 250 255
 Asp Leu Met Asp Phe Val Ala Ala Asn Gly Ala Ile Gly Glu Asp Ala
 260 265 270
 Thr Gln Val Ile Thr Lys Gln Ile Leu Glu Gly Ile Ala Tyr Val His
 275 280 285
 Asn Leu Gly Ile Ser His Arg Asp Leu Lys Pro Asp Asn Ile Leu Ile
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 Met Gln Asp Asp Pro Ile Leu Val Lys Ile Thr Asp Phe Gly Leu Ala
 305 310 315 320
 Lys Phe Ser Asp Asn Ser Thr Phe Met Lys Thr Phe Cys Gly Thr Leu
 325 330 335
 Ala Tyr Val Ala Pro Glu Val Ile Thr Gly Lys Tyr Gly Ser Ser Gln
 340 345 350
 Met Glu Ser Gln Gln Lys Asp Asn Tyr Ser Ser Leu Val Asp Ile Trp
 355 360 365
 Ser Leu Gly Cys Leu Val Tyr Val Leu Leu Thr Ser His Leu Pro Phe
 370 375 380
 Asn Gly Lys Asn Gln Gln Gln Met Phe Ala Lys Ile Lys Arg Gly Glu
 385 390 395 400
 Phe His Glu Ala Pro Leu Asn Ser Tyr Asp Ile Ser Glu Asp Gly Arg
 405 410 415
 Asp Phe Leu Gln Cys Cys Leu Gln Val Asn Pro Lys Leu Arg Met Thr
 420 425 430
 Ala Ala Glu Ala Leu Lys His Lys Trp Leu Gln Asp Leu Tyr Glu Glu
 435 440 445

Asp Ser Val Lys Ser Leu Ser Leu Ser Gln Ser Gln Ser Gln Gln Ser
450 455 460

Arg Lys Ile Asp Asn Gly Ile His Ile Glu Ser Leu Ser Lys Ile Asp
465 470 475 480

Glu Asp Val Met Leu Arg Pro Leu Asp Ser Glu Arg Asn Arg Lys Ser
485 490 495

Ser Lys Gln Gln Asp Phe Lys Val Pro Lys Arg Val Ile Pro Leu Ser
500 505 510

Gln His Pro Ala Thr Pro Leu Pro Met Ser Gln Pro Lys Lys Arg Pro
515 520 525

Tyr Gln Ile Asp Pro Arg Thr Asn Lys Lys Val Asp Leu Glu Glu Pro
530 535 540

Ser Thr Ser Lys Lys Val Lys Leu Ser Asp Ser Val Val Ala Glu Asp
545 550 555 560

Tyr Leu Lys Leu Gly Pro Leu Ala Asn Ser Leu Phe Gln Glu Thr Ile
565 570 575

Asn Ile Ser Lys Ser Pro Phe Ser Phe Gly Arg Asn Asp Thr Cys Asp
580 585 590

Cys Glu Ile Asp Asp Asp Arg Leu Ser Lys Leu His Cys Val Ile Thr
595 600 605

Lys Glu Asn Asp Ser Ile Trp Leu Leu Asp Lys Ser Thr Asn Ser Cys
610 615 620

Leu Val Asn Asn Thr Ser Val Gly Lys Gly Asn Lys Val Leu Leu Arg
625 630 635 640

Gly Gly Glu Ile Leu His Leu Phe Phe Asp Pro Leu Ser Ser Gln His
645 650 655

Ile Gly Phe Lys Val Val Leu Val Asp Gln Ser Ser Gly Glu His Lys
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Ser Gln Val Glu Val Leu Lys Gln Thr Ser Glu Glu Met Asn Ile Ile
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Pro Leu Ile Ser Gly Leu Ser Ser Ile Ser Ser
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<211> 295

<212> PRT

<213> Candida albicans

<400> 13

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Ser Lys Arg Ile Tyr Asp Glu Thr Ile Ala Ala Glu Val Glu Gly Asp	65	70	75
Asp Glu Phe Gln Ser Tyr Phe Thr Asn Leu Leu Glu Glu Pro Lys Ile	85	90	95
Leu Leu Thr Thr Ser Ala Asn Ala Lys Lys Pro Ala Tyr Glu Phe Ala	100	105	110
Asp Met Ile Met Asp Phe Leu Pro Asn Val Thr Phe Ile Lys Arg Lys	115	120	125
Lys Glu Tyr Thr Met Gln Asp Met Ala Lys Tyr Cys Ser Asn Arg Asp	130	135	140
Phe Thr Ala Leu Leu Val Ile Asn Glu Asp Lys Lys Lys Val Asn Gly	145	150	155
Ile Thr Leu Ile Asn Leu Pro Glu Gly Pro Thr Phe Tyr Phe Ser Ile	165	170	175
Thr Ser Ile Val Asp Gly Lys Arg Ile Lys Gly His Gly Lys Ala Gly	180	185	190
Asp Tyr Leu Pro Glu Ile Val Leu Asn Asn Phe Asn Ser Arg Leu Gly	195	200	205
Lys Thr Val Gly Arg Leu Phe Gln Ser Ile Phe Pro His Lys Pro Glu	210	215	220
Leu Gln Gly Arg Gln Val Ile Thr Leu His Asn Gln Arg Asp Tyr Ile	225	230	235
Phe Phe Arg Arg His Arg Tyr Ile Phe Arg Asn Glu Glu Lys Val Gly	245	250	255
Leu Gln Glu Gly Pro Gln Phe Thr Leu Lys Leu Arg Arg Met Gln Lys	260	265	270
Gly Val Arg Gly Asp Val Val Trp Glu His Arg Pro Asp Met Glu Arg	275	280	285
Asp Lys Lys Lys Phe Tyr Leu	290	295	

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 <212> PRT
 <213> Candida albicans

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 Leu Tyr Val Val Leu Lys Asp
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 <212> PRT
 <213> Candida albicans

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 35 40 45
 Glu Ser Thr Asn Asn His His His Leu Asn Thr Val Val Asp Asn Leu
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 Arg Gln Arg Ala Gly Ser Phe Ser Phe Ile Ser His His His Asn His
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 His Gln Asn Ser His Asp Asn Tyr Thr Val Asp Pro Leu Thr Ser Asn
 85 90 95
 Gly Ala Arg Ile Ser Arg Ser Arg Ser Arg Ser Lys Ser Val Gly His
 100 105 110
 Gly Glu Ala Ile Ser Pro Ala Tyr Phe Ser Lys Asn Lys Thr Lys Asp
 115 120 125
 Leu Val Lys Gln Glu Thr Ala His Ile Ile Ser Lys Lys Leu Leu Asn
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 Met Leu Gln Asp Leu Asp Leu Gln Asn Pro Ile Ala Leu Lys Thr Ile
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 Ser Gln Gly Ser Glu Ser Lys Phe Cys Lys Ile Tyr Val Ser Asn Thr
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Asn Asn Cys Ile Tyr Leu Pro Ala Ala Ser Ser Thr Ser Phe Thr Tyr
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 Glu Asp Asp Glu Asn Gly Gly Val Ile Ile Ala Glu Asp Arg Asn Asp
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 Glu Met Pro Thr Ala Val Asn Asn Asn Thr Leu Ser Met Asp Ser Ile
 210 215 220
 Asn His Ser Glu Thr Asp Phe Ser Asp Ser Pro Pro Pro Pro Asp Leu
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 Phe Ser Lys Met Lys Ser Phe His Ser Pro Asn Tyr Leu Thr Ser Lys
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 Ile Asp Ser Glu Cys Pro Ile Pro His Thr Phe Ala Val Ile Val Glu
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 His Ala Lys Glu Lys Phe Thr Ile Gly Asn Met Glu Trp Arg Thr Ser
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 Lys Ser Lys Asn Leu Gly Pro Glu Asp Leu Ile Asn Arg Thr Arg Glu
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 Tyr Lys Leu Ile Asp Ile Glu Glu Pro Asn Asn Ser Ser Asn Ser Leu
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 Lys Pro Asp Ser Asp Asn Lys Met His His Tyr Glu Val Val Ile Asp
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 <213> Candida albicans

<400> 16
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<210> 17
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 <212> DNA
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<220>
 <223> Description of Artificial Sequence:primer

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<220>
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<210> 19
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 <223> Description of Artificial Sequence:primer

<400> 19
tgagcagctc gccgtcgcgc 20

<210> 20
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<400> 20
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<210> 21
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<223> Description of Artificial Sequence:DNA plasmid

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<210> 22

<211> 7127

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:DNA plasmid

<400> 22

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